

Product datasheet for **SC121408**

SP3 (NM_003111) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SP3 (NM_003111) Human Untagged Clone
Tag:	Tag Free
Symbol:	SP3
Synonyms:	SPR2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC121408 sequence for NM_003111 edited (data generated by NextGen Sequencing)

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ATGACCGCTCCCAGAAAAGCCCGTGAAACAAGAGGAAATGGCTGCCTTGGACGTGGATAGC
GGCGGGCGCGGTGGCGGGCGGGCGGCCACGGCGAGTATCTGCAGCAGCAGCAACAGCAC
GGAAACGGTGGCGTGGCGGGCGGACGGCGGCCAGGACACTCAGCCGTCACCGCTCGT
CTGTGGCCGCTACCTGCAGCAAGATAGGGCCGCCATCGCCGGGCGACGACGAGGAGGAG
GCGGCCGCGCAGCCGGGGCCCCCGCCGCGCCGGAGCGACAGGTGATTTGGCTTCTGCA
CAGTTAGGAGGAGCACCAAAACCGATGGGAGGTTTTGTAGCCACACCTACAATAAAAA
GATGAAGCTGGTAATCTAGTCCAGATTCCAAGTCTGCTACTTCAAGTGGGCAGTATGTT
CTTCCCCTCAGAATTTGCAGAATCAACAAATATTTTCCGTTGCACCAGGATCAGATTCA
TCAATGGTGCAGTGTCCAGTGTCAATATCAAGTGATACCACAGATCCAGTCAGCAGAT
GGTCAGCAGGTTCAAATTTGGTTTACAGGCTCTTCAGATAATGGGGGTATAAATCAAGAA
AGCAGTCAAATTCAGATCATTCTGGCTCTAATCAAACCTTACTGCCTCTGGAACCTT
TCTGCTAACATCCAGAATCTCATACCACAGACTGGTCAAGTCCAGTTCAGGGAGTTGCA
ATTGGTGGTTCATCTTTTCTGGTCAAACCCAAGTAGTTGCTAATGTGCCTCTTGGTCTG
CCAGGAAATATTACGTTTGTACCAATCAATAGTGTGATCTAGATTCTTTGGGACTCTCG
GGCAGTTCTCAGACAATGACTGCAGGCATTAATGCCGACGGACATTTGATAAACACAGGA
CAAGCTATGGATAGTTCAGACAATTCAGAAAGGACTGGTGAGCGGGTTTCTCCTGATATT
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GGGCAGTTTATTCTTCAGATCTTCAGGGAAATATATCCAGTCGCCTGTTTCTGAAGAG
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CAAGAGTCTCAGCAGCCAACCAAGTCAAGCCCAAATTTGTCAAGGTATTACACCACAGACA
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AATGCTGACAGTCTGCAGATATTAGGATCAAGGAAGAAGAACCCTGATCCTGAAGAGTGG
CAGCTCAGTGGTATTCTACCTTGAATACCAATGACCTAACACACTTAAGAGTACAGGTG
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ACCTGTCCCAACTGTAAGAAGGTGGTGGAAAGAGTACCAATCTTGGGAAAAAGAAGCAA
CACATTTGTCATATACCAGGATGTGGTAAAGTCTATGGGAAGACCTCACATCTGAGAGCT
CATCTGCGTTGGCATTCTGGAGAACGCCCTTTTGTGTTGTAAGTGGATGACTGTGGTAAA
AGATTTACTCGAAGTGAATTAACAGAGGCACAGAAGAACACATACAGGTGAGAAGAAA
TTTGTTTGTCAGAATGTTCAAAACGCTTATGAGAAGTGACCACCTTGCCAAACATATT
AAAACACACCAGAATAAAAAAGGTATTTACTCTAGCAGTACAGTGTGGCATCTGTGGAA
GCTGCGCGAGATGATACTTTGATTACTGCAGGAGGAACAACGCTTATCCTTGCAAATATT
CAACAAGGTTCTGTTTTCAGGATAGGAACTGTTAATACTTCCGCCACCAGCAATCAAGAT
ATCCTTACCAACTGAAATACCTTTACAGCTTGTACAGTTTCTGGAATGAGACAATG
GAGTAA
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Clone variation with respect to NM_003111.4
490 a=>g

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_003111 unedited</p> <pre>GGGGGTCACATAGNAAACCCCTTCTATAGGCGGCCGCGNAATTCGCACGAGCCGGCCGTG TCCGCCGCGCTTCCCGCATCTCTCCCGCCGCCCGCCTTCGCTCCTCACCATGTGTA AGGCGCGGGGAGCCCCGCTGAGTGCCCTAAACACACTATGACCGCTCCCGAAAAGCCC GTNGAAACAAGAGGAAATGGCTGCCTTGGTTCTTTATAGCGCGCGCGCGGTGGCGGG CGCGCGGCCACGGCGAGTATCTGCAGCAGCAGCAACAGCACGGAAACGGTGCGGTGGCGG CGGCAGCGCGGCCAGGACACTCAGCCGTACCCTCGCTCTGCTGGCCGCTACCTGCA GCAAGATAGGGCCGCCATCGCCGGCGACGACGAGGAGGAGGCGCCGCCGACCCGGGG CCCCCGCCGCGCGGAGCGACAGGTGATTTGGCTTCTGCACAGTTTGGAGGACACCAA ACCGATGGGAGGTTTTGTGAGCCACACCTACAACCTNAAAGATGAAGCTGGTAATCTAGT CCAGATCCAAGTGTGCTTCTCCAGTGGGCAGTATGTTCTTCCCTTCCCTAATTTGCG GAATCACATATATTTCCGTTGCCCGGGTTCAGATTCCTCAAATGGTGCAGTGTCCCAT GTTTCATTTTATGTGGTCCCCCGATCCCGTCCGCGCTGGGTCCCAGGTTCAAATTTGG TTTCACAGGCTTTTCCGATAATGGGGGGTTAATCCAGGAAAGCGTTCATTTCCGTTT TTCTGGCTCTTTATTAACCCCTATTTGGCCTTTGGAACCCCTTTCGTTTCTCTCCCA ATCCCTTCCCCCACCTGGTTCACCTCCACGTTTCAAGGGCTGCCAACTGGGAGTAAAA AATA</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_003111 unedited</p> <pre>TTAGAATACACCCTAGACGATGACCATAAATGAGACACCATCTAGATTTAGAGGATGCGC TCTCTAAAATATAGCAAATGAACAGCAATCCAAATTTTCTGAAATATGTGAAGTGTGCG AATTACAAGTATACATTTAGGAAAAGTGTCTAGCTTTACAAGACCAGCAATGTAACCTT ATTTTGTACATTTTGAATTGAAAATATAAACAATAATTAATAAATAAAGAAAATACA GCATAATAAAAAACATACGCTTCTCAATTAATGTACTGCATACATATAAATTTAAGGG AAGAAGCACAAAAGGAAAATGATTGATTTAAGTGCAGACTGACTACCTACACCAAAAA TAAAAAGACTTAAAAAATATCCTAAAACCTCTAGTCTTCTATGACTAATATCCATATG GTTGGAGTATCGTCACTATGGAAGTATTTTGTAAAGTTTGCCTATGTTACAGTTTACTG TTAATTTTTCATGATGGCTGTTAAAGCCCTGAGAGACAAGGTTTTAGGTATAAAGATGGAT ACAATAACAGTTAAAACGAAGGACAGATTACTTATCCGGTCCCCAGGAGTCAAGAAAT GGGACCTTGACGATAAGATTGCGCCTAACACCGAAGGGCCCTCACTTAATCCAACTGA ACCCTCTATAAAAAGCTAGGTCTTTCGGCCATCCCGCGTGTTCACCAAAGCTCTATCCACC CCCTCATTTTCCGGGAGTGCATCCTTATACCAGGTCATTGTCAAACACCATCCCACGGTA GACCTATCCAACCGGTTGCTGTCAACGCAAAGACAGTCCAATAAGTTTCGACCACTAGAA TCATCTATAGCATTTGTAATTTATCATAGATCCAGTGCTACCAATAGCCTATAAACAGA TCTTATATCTT</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_003111
Insert Size:	4400 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_003111.3 , NP_003102.1
RefSeq Size:	3920 bp
RefSeq ORF:	2346 bp
Locus ID:	6670
UniProt ID:	Q02447
Cytogenetics:	2q31.1
Protein Families:	Druggable Genome, Transcription Factors
Gene Summary:	<p>This gene belongs to a family of Sp1 related genes that encode transcription factors that regulate transcription by binding to consensus GC- and GT-box regulatory elements in target genes. This protein contains a zinc finger DNA-binding domain and several transactivation domains, and has been reported to function as a bifunctional transcription factor that either stimulates or represses the transcription of numerous genes. Transcript variants encoding different isoforms have been described for this gene, and one has been reported to initiate translation from a non-AUG (AUA) start codon. Additional isoforms, resulting from the use of alternate downstream translation initiation sites, have also been noted. A related pseudogene has been identified on chromosome 13. [provided by RefSeq, Feb 2010]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1). Alternative translation initiation from downstream, in-frame start codons produces shorter isoforms. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>